#6

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 0/531,844Source: 0/531,844Date Processed by STIC: 0/531,844

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RAW SEQUENCE LISTING

DATE: 04/27/2005

RAW SEQUENCE LISTING DATE: 04/27/200
PATENT APPLICATION: US/10/531,844 TIME: 14:38:36

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     8 <130> FILE REFERENCE: ASZD-P01-874
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C--> 10 <141> CURRENT FILING DATE: 2005-04-18
     10 <150> PRIOR APPLICATION NUMBER: GB 0224997.7
    11 <151> PRIOR FILING DATE: 2002-10-26
    13 <160> NUMBER OF SEQ ID NOS: 4
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PATENT APPLICATION: US/10/531,844

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			CAT:	ION:	(200	0)	(200))	a bo	221	nati	. r . r a l l	1		rina	.amino	agid
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	277 278 281 282 285 286 289 290 293 294 297 298 301 302 305 306 309	Ala Leu 225 Ala Leu Pro Leu Ile	Lys 210 Asn Asn Leu Ala 290 Lys	195 Trp Trp Val Asp 275 Ala Gln	Ala Asn Leu Gly 260 Glu Ile Ser	Ile Gln Pro 245 Xaa Leu Cys Leu Val	Gln Val 230 Phe Xaa Gly Val Thr 310	Lys 215 Glu Ser Lys Ile Pro 295 Asn	200 Asn Leu Thr Leu Pro 280 Lys	Met Gln Lys Tyr 265 Gly Leu Ser	Thr Thr Glu 250 Phe Ser Lys Gly Phe	Ala Leu 235 Ala Asn His Asn Val 315	Glu 220 Ala Val Glu Asn Val 300 Pro	205 Asp Lys Glu Glu Ile 285 Ser His	Thr Thr Gly Tyr 270 Glu Asn Arg	Leu Thr Ala 255 Ile Asn Ala . Thr	Ile Ala 240 Tyr Met Ala Gln Gln 320
	277 278 281 282 285 286 289 290 293 294 297 298 301 305 306 309 310	Ala Leu 225 Ala Leu Pro Leu Ile 305 Phe	Lys 210 Asn Asn Leu Ala 290 Lys Val	195 Trp Val Asp 275 Ala Gln Gly	Ala Asn Leu Gly 260 Glu Ile Ser Glu	Ile Gln Pro 245 Xaa Leu Cys Leu Val 325	Gln Val 230 Phe Xaa Gly Val Thr 310 Gln	Lys 215 Glu Ser Lys Ile Pro 295 Asn	200 Asn Leu Thr Leu Pro 280 Lys Phe Arg	Met Gln Lys Tyr 265 Gly Leu Ser Arg	Thr Thr Glu 250 Phe Ser Lys Gly Phe 330	Ala Leu 235 Ala Asn His Asn Val 315 Tyr	Glu 220 Ala Val Glu Asn Val 300 Pro	205 Asp Lys Glu Glu Ile 285 Ser His Asp	Thr Gly Tyr 270 Glu Asn Arg Ser	Leu Thr Ala 255 Ile Asn Ala . Thr Lys 335	Ile Ala 240 Tyr Met Ala Gln Gln 320 Ala
•	277 278 281 282 285 286 289 290 293 294 297 298 301 305 306 309 310	Ala Leu 225 Ala Leu Pro Leu Ile 305	Lys 210 Asn Asn Leu Ala 290 Lys Val	195 Trp Val Asp 275 Ala Gln Gly	Ala Asn Leu Gly 260 Glu Ile Ser Glu	Ile Gln Pro 245 Xaa Leu Cys Leu Val 325	Gln Val 230 Phe Xaa Gly Val Thr 310 Gln	Lys 215 Glu Ser Lys Ile Pro 295 Asn	200 Asn Leu Thr Leu Pro 280 Lys Phe Arg	Met Gln Lys Tyr 265 Gly Leu Ser Arg	Thr Thr Glu 250 Phe Ser Lys Gly Phe 330	Ala Leu 235 Ala Asn His Asn Val 315 Tyr	Glu 220 Ala Val Glu Asn Val 300 Pro	205 Asp Lys Glu Glu Ile 285 Ser His Asp	Thr Gly Tyr 270 Glu Asn Arg Ser	Leu Thr Ala 255 Ile Asn Ala . Thr Lys 335	Ile Ala 240 Tyr Met Ala Gln Gln 320 Ala
•	277 278 281 282 285 286 289 290 293 294 297 298 301 305 306 309 310	Ala Leu 225 Ala Leu Pro Leu Ile 305 Phe	Lys 210 Asn Asn Leu Ala 290 Lys Val	195 Trp Val Asp 275 Ala Gln Gly	Ala Asn Leu Gly 260 Glu Ile Ser Glu	Ile Gln Pro 245 Xaa Leu Cys Leu Val 325	Gln Val 230 Phe Xaa Gly Val Thr 310 Gln	Lys 215 Glu Ser Lys Ile Pro 295 Asn	200 Asn Leu Thr Leu Pro 280 Lys Phe Arg	Met Gln Lys Tyr 265 Gly Leu Ser Arg	Thr Thr Glu 250 Phe Ser Lys Gly Phe 330	Ala Leu 235 Ala Asn His Asn Val 315 Tyr	Glu 220 Ala Val Glu Asn Val 300 Pro	205 Asp Lys Glu Glu Ile 285 Ser His Asp	Thr Gly Tyr 270 Glu Asn Arg Ser	Leu Thr Ala 255 Ile Asn Ala . Thr Lys 335	Ile Ala 240 Tyr Met Ala Gln Gln 320 Ala
•	277 278 281 282 285 286 289 290 293 294 297 298 305 306 309 310 313 314	Ala Leu 225 Ala Leu Pro Leu Ile 305 Phe Thr	Lys 210 Asn Asn Leu Ala 290 Lys Val Asn	195 Trp Val Asp 275 Ala Gln Gly Phe	Ala Asn Leu Gly 260 Glu Ile Ser Glu Leu 340	Ile Gln Pro 245 Xaa Leu Cys Leu Val 325 Ala	Gln Val 230 Phe Xaa Gly Val Thr 310 Gln Thr	Lys 215 Glu Ser Lys Ile Pro 295 Asn Gln	200 Asn Leu Thr Leu Pro 280 Lys Phe Arg	Met Gln Lys Tyr 265 Gly Leu Ser Arg Ala 345	Thr Thr Glu 250 Phe Ser Lys Gly Phe 330 Leu	Ala Leu 235 Ala Asn His Asn Val 315 Tyr Ser	Glu 220 Ala Val Glu Asn Val 300 Pro Asn Xaa	205 Asp Lys Glu Glu Ile 285 Ser His Asp	Thr Thr Gly Tyr 270 Glu Asn Arg Ser Gly 350	Leu Thr Ala 255 Ile Asn Ala Thr Lys 335 Phe	Ile Ala 240 Tyr Met Ala Gln Gln 320 Ala Asp
•	277 278 281 282 285 286 290 293 294 297 298 301 302 305 306 313 314 317	Ala Leu 225 Ala Leu Pro Leu Ile 305 Phe	Lys 210 Asn Asn Leu Ala 290 Lys Val Asn	195 Trp Val Asp 275 Ala Gln Gly Phe	Ala Asn Leu Gly 260 Glu Ile Ser Glu Leu 340	Ile Gln Pro 245 Xaa Leu Cys Leu Val 325 Ala	Gln Val 230 Phe Xaa Gly Val Thr 310 Gln Thr	Lys 215 Glu Ser Lys Ile Pro 295 Asn Gln	200 Asn Leu Thr Leu Pro 280 Lys Phe Arg Met	Met Gln Lys Tyr 265 Gly Leu Ser Arg Ala 345	Thr Thr Glu 250 Phe Ser Lys Gly Phe 330 Leu	Ala Leu 235 Ala Asn His Asn Val 315 Tyr Ser	Glu 220 Ala Val Glu Asn Val 300 Pro Asn Xaa	205 Asp Lys Glu Glu Ile 285 Ser His Asp	Thr Thr Gly Tyr 270 Glu Asn Arg Ser Gly 350	Leu Thr Ala 255 Ile Asn Ala Thr Lys 335 Phe	Ile Ala 240 Tyr Met Ala Gln Gln 320 Ala Asp
•	277 278 281 282 285 286 290 293 294 297 298 301 302 305 306 313 314 317 318	Ala Leu 225 Ala Leu Pro Leu Ile 305 Phe Thr	Lys 210 Asn Asn Leu Ala 290 Lys Val Asn Gln	195 Trp Val Asp 275 Ala Gln Gly Phe Lys 355	Ala Asn Leu Gly 260 Glu Ile Ser Glu Leu 340 Leu	Ile Gln Pro 245 Xaa Leu Cys Leu Val 325 Ala Leu	Gln Val 230 Phe Xaa Gly Val Thr 310 Gln Thr	Lys 215 Glu Ser Lys Ile Pro 295 Asn Gln Glu Leu	200 Asn Leu Thr Leu Pro 280 Lys Phe Arg Met Ala 360	Met Gln Lys Tyr 265 Gly Leu Ser Arg Ala 345 Gly	Thr Thr Glu 250 Phe Ser Lys Gly Phe 330 Leu Gly	Ala Leu 235 Ala Asn His Asn Val 315 Tyr Ser Leu	Glu 220 Ala Val Glu Asn Val 300 Pro Asn Xaa Asp	205 Asp Lys Glu Glu Ile 285 Ser His Asp Xaa Xaa 365	Thr Thr Gly Tyr 270 Glu Asn Arg Ser Gly 350 Arg	Leu Thr Ala 255 Ile Asn Ala Thr Lys 335 Phe Gly	Ile Ala 240 Tyr Met Ala Gln Gln 320 Ala Asp Asn
•	277 278 281 282 285 286 289 290 293 294 297 298 301 302 305 306 310 313 314 317 318 321	Ala Leu 225 Ala Leu Pro Leu Ile 305 Phe Thr	Lys 210 Asn Asn Leu Ala Ala 290 Lys Val Asn Gln Phe	195 Trp Val Asp 275 Ala Gln Gly Phe Lys 355	Ala Asn Leu Gly 260 Glu Ile Ser Glu Leu 340 Leu	Ile Gln Pro 245 Xaa Leu Cys Leu Val 325 Ala Leu	Gln Val 230 Phe Xaa Gly Val Thr 310 Gln Thr	Lys 215 Glu Ser Lys Ile Pro 295 Asn Gln Glu Leu	200 Asn Leu Thr Leu Pro 280 Lys Phe Arg Met Ala 360	Met Gln Lys Tyr 265 Gly Leu Ser Arg Ala 345 Gly	Thr Thr Glu 250 Phe Ser Lys Gly Phe 330 Leu Gly	Ala Leu 235 Ala Asn His Asn Val 315 Tyr Ser Leu	Glu 220 Ala Val Glu Asn Val 300 Pro Asn Xaa Asp	205 Asp Lys Glu Glu Ile 285 Ser His Asp Xaa Xaa 365	Thr Thr Gly Tyr 270 Glu Asn Arg Ser Gly 350 Arg	Leu Thr Ala 255 Ile Asn Ala Thr Lys 335 Phe Gly	Ile Ala 240 Tyr Met Ala Gln Gln 320 Ala Asp Asn
•	277 278 281 282 285 286 290 293 294 297 298 301 302 305 306 313 314 317 318	Ala Leu 225 Ala Leu Pro Leu Ile 305 Phe Thr	Lys 210 Asn Asn Leu Ala 290 Lys Val Asn Gln	195 Trp Val Asp 275 Ala Gln Gly Phe Lys 355	Ala Asn Leu Gly 260 Glu Ile Ser Glu Leu 340 Leu	Ile Gln Pro 245 Xaa Leu Cys Leu Val 325 Ala Leu	Gln Val 230 Phe Xaa Gly Val Thr 310 Gln Thr	Lys 215 Glu Ser Lys Ile Pro 295 Asn Gln Glu Leu	200 Asn Leu Thr Leu Pro 280 Lys Phe Arg Met Ala 360	Met Gln Lys Tyr 265 Gly Leu Ser Arg Ala 345 Gly	Thr Thr Glu 250 Phe Ser Lys Gly Phe 330 Leu Gly	Ala Leu 235 Ala Asn His Asn Val 315 Tyr Ser Leu	Glu 220 Ala Val Glu Asn Val 300 Pro Asn Xaa Asp	205 Asp Lys Glu Glu Ile 285 Ser His Asp Xaa Xaa 365	Thr Thr Gly Tyr 270 Glu Asn Arg Ser Gly 350 Arg	Leu Thr Ala 255 Ile Asn Ala Thr Lys 335 Phe Gly	Ile Ala 240 Tyr Met Ala Gln Gln 320 Ala Asp Asn





TIME: 14:38:36

DATE: 04/27/2005

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/531,844

Input Set : A:\PTO.SR.txt

Output Set: N:\CRF4\04272005\J531844.raw

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325 Val Leu Phe Gly Glu Thr Lys Lys Leu Ala Glu Ala Ala Lys Lys
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    329 Pro Asn Ile Glu Thr Ile Leu Phe Ala Glu Asn Val Gln Thr Ala Val
    330 405
                             410
    333 Thr Ile Ala Phe Asp Tyr Ser Glu Lys Asp Asp Thr Ile Leu Leu Ser
    334 420
                                      425
    337 Pro Ala Cys Ala Ser Trp Asp Gln Tyr Pro Asn Phe Glu Val Arg Gly
    338 435 440
    341 Glu Ala Phe Met Gln Ala Val Gln Gln Leu Lys Glu Ser Glu Met
    342 450
                               455
    345 <210> SEQ ID NO: 3
    346 <211> LENGTH: 463
    347 <212> TYPE: PRT
    348 <213> ORGANISM: Pseudomonas aeruginosa bacterium
    351 <220> FEATURE:
    352 <221> NAME/KEY: misc_feature
    353 <222> LOCATION: (1)..(2)
    354 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
    356 <220> FEATURE:
    357 <221> NAME/KEY: misc_feature
    358 <222> LOCATION: (73)..(73)
    359 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
    361 <220> FEATURE:
    362 <221> NAME/KEY: misc feature
    363 <222> LOCATION: (142)..(143)
    364 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
    366 <220> FEATURE:
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    368 <222> LOCATION: (154)..(155)
    369 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
    371 <220> FEATURE:
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    374 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
    376 <220> FEATURE:
    377 <221> NAME/KEY: misc feature
    378 <222> LOCATION: (235)..(235)
    379 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
    381 <220> FEATURE:
    382 <221> NAME/KEY: misc feature
    383 <222> LOCATION: (399)..(400)
    384 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
    386 <220> FEATURE:
    387 <221> NAME/KEY: misc feature
    388 <222> LOCATION: (460)..(463)
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    391 <400> SEQUENCE: 3
W--> 393 Xaa Xaa Met Ser Leu Ile Ala Ser Asp His Phe Arg Ile Val Val Gly
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10

394 1



RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/531,844

DATE: 04/27/2005 TIME: 14:38:37

Input Set : A:\PTO.SR.txt

Output Set: N:\CRF4\04272005\J531844.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,3,46,47,48,73,142,143,154,155,235,247,248,249,348,349

Seq#:1; Xaa Pos. 399,400,408,409,460,461,462,463-

Seq#:2; Xaa Pos. 200, 261, 262, 348, 349, 365, 380

Seq#:3; Xaa Pos. -1,2,78,142,143,154,155,200,235,399,400,460,461,462,463

Seq#:4; Xaa Pos. 73,142,143,200,235,261,262,348,349,353,365,380,401,463





VERIFICATION SUMMARY

PATENT APPLICATION: US/10/531,844

TIME: 14:38:37

Input Set : A:\PTO.SR.txt

Output Set: N:\CRF4\04272005\J531844.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

M:341 Repeated in SeqNo=1

L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:192

M:341 Repeated in SeqNo=2

L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0

M:341 Repeated in SeqNo=3

L:588 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:64

M:341 Repeated in SeqNo=4